Vol. IX No. 1 Jan. 1980 Monthly except during July and August Price $5.50 yearly Single Issue 75¢ Publisher, Jim Cranshaw

Second-class postage paid at Dallas, Texas Postal Indentification Statement, page 2 214-286-1673

THE NEWSPAPER FOR
THE HOBBYIST OF VINTAGE
ELECTRONICS AND SOUND

THE HORN SPEAKER

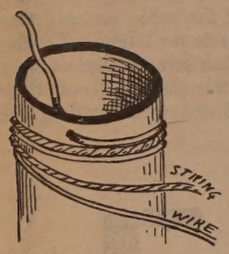


FIGURE 1

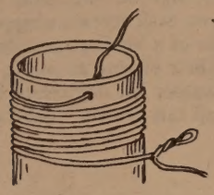


FIGURE 2

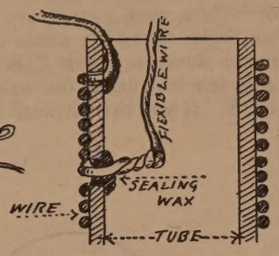


FIGURE 3

Illustrated with pen-and-ink sketches by the author from a home-made apparatus which he built himself

How *to* Make a Loose Coupler Coil

Another of the Practical and Popular "How to Make" Series of Articles for the Radio Novice

By A. HYATT VERRILL

ALTHOUGH vario-couplers, variometers and other instruments have largely taken the place of the older and simpler loose-coupled tuning coils, especially in the more expensive and ready-made sets, still, a well-made, loose-coupled coil is a useful device and will give excellent results. Moreover, it is far easier to make a loose-coupler than other forms of vario-coupler tuners; any one with the least mechanical ability and a little patience may build an efficient coil of this sort at a small cost.

No expensive or special tools are required with the exception of some twist drills, either used in a geared breast drill or a bit-brace, and the only materials needed are some formica or other composition tubes, some half-inch wood, wire, a few binding posts, a multiple point switch, half a dozen ⅛-inch by 1-inch brass machine screws with nuts and washers to fit, a piece of ¼-inch round brass rod about 18 inches long, a piece of ¼-inch square brass rod a little more than a foot in length, a small strip of spring brass and a piece of square brass tubing ¼-inch inside and 2 inches long. Formica or other composition tubes are suggested; while pasteboard tubes or wooden cylinders may be used as the foundations for coils, they are not advisable. They do well for experimental work or rigging up a temporary set, but even if shellacked or soaked in paraffine they will still absorb moisture, and this detracts from the efficiency of the coil. In our climate, where the air is damp and humid in summer and the houses that are heated by artificial means are dry in winter, wood and cardboard will swell, shrink or warp and eventually ruin the coil. Accordingly, if you intend to make a good coil, get tubes that will serve you well and will endure; good work is worthy of good foundations.

The exact size of the coils is not important as long as the diameter of the smaller one is a trifle less than the diameter of the outside coil, so that it may be slipped within and yet leave at least ⅛-inch all around. If the larger tube is between 2½ and 3½ inches in diameter and from 6 to 8 inches long, it will do very well and the smaller tube should be the same length.

The first step is to wind the larger or primary coil. This may be done either with double cotton covered, enameled or bare copper wire about No. 24 in size. Make a small hole about three-fourths of an inch from each end of the tube; thread about 6 inches of the wire through this and fasten the wire on the inner side of the tube with a drop of sealing wax. Then wind the wire on smoothly and evenly. If you are using insulated wire, merely wind on the turns side by side, but if you are using bare wire wind it on with a cotton string or twine between each turn of wire, as shown in Figure 1.

When you reach the hole at the opposite end of the tube, run the wire through, fasten it inside the tube with sealing wax and snip it off close.

When you wind a tube, you will find it far easier for two to work than to do it alone. One can then hold the coil as the wire is wound on while the other can unroll the wire and keep it free from kinks. If you buy a reel or spool of wire this may be hung up on a nail or peg and may be reeled off easily without fear of kinking. Also, if you have a lathe you will find it very easy to attach the tube to the lathe and by revolving the tube wind the wire on easily and smoothly. To fasten the tube in the lathe, slip it over a cylindrical piece of wood, fasten it lightly by small screws through holes close to the ends of the tube and place the chucks against the wooden cylinder.

To wind the smaller or secondary coil is not a simple, for this must be tapped at intervals of every twenty turns. Start the wire in the same way as on the large coil and wind on twenty turns. Then, make a small loop or twist in the wire as shown in Figure 2. Scrape off the insulation and attach a piece of flexible insulated copper wire about a foot long. Make a good connection (keep the wires bright and twist them firmly together), and then, just where the tap comes on the tube, bore a hole, run the flexible wire through, pulling the loop in by gently pulling on the end of the flexible wire at the end of the tube and drop a bit of sealing wax upon the wire where it enters the hole (Figure 3). The only care needed in doing this is to have the hole large enough to allow the tap to pass through freely, to be careful and not kink the wire on the outside of the coil and to hold the wire wound on the coil in place while making the tap and pulling it through the hole. You may have a bit of trouble with the first tap, but if anything goes wrong you can unwind the first twenty turns and start over again without much trouble—and it is a good plan to become adept and to make a neat job of this first tap before continuing to the next.

After the first tap is made the others will be easier, for by carefully measuring the distance from the first turn of wire on the tube to the hole for the tap you can measure off the spaces on the tube for the other taps and make the holes ahead of time. After the first tap is successfully made, continue winding for the next twenty turns, make a second tap the same way and so on to the end of the coil, where the wire should be run through a hole, fastened on the inside of the coil with sealing wax and left with about a foot of loose wire free.

The next step is to mount the coils. Use either Bakelite, fibre or well-seasoned white wood for this. If you have a jig-saw or a small keyhole saw, you can readily do everything yourself, but if not you can get some nearby carpenter or cabinet maker to cut the pieces for you. Assuming the large coil is 3 inches in diameter and 7 inches long, you will require a rectangular piece 5 by 15 inches for the base or panel; two pieces 4 by 4 inches for the primary or large coil support; two pieces 3 by 3 inches for the supports for the secondary or smaller coil and two circular pieces or discs just the right size to fit snugly into the smaller tube.

The two pieces 4 by 4 inches to support the primary coil should have circles or holes cut in each; the circles should be just large enough to admit the bare ends of the large coil. Have all these pieces of wood smoothed and sandpapered, bevel the edges of the square and rectangular pieces and give them a coat of stain and let them dry. Then sandpaper again, give another coat of stain and when dry give two coats of valspar varnish or shellac. While the stain or varnish

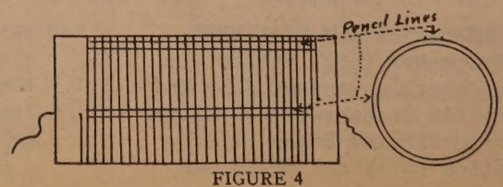


FIGURE 4

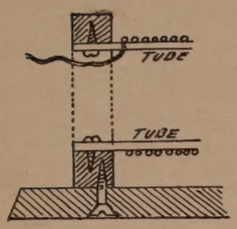
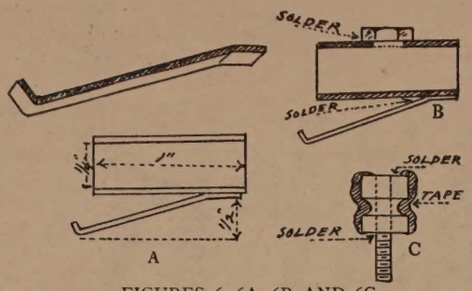


FIGURE 5



FIGURES 6, 6A, 6B AND 6C

is drying you can go on with the other parts of the loose-coupler. Along the large coil (if wound with insulated wire) mark two lines ¼-inch apart as shown in Figure 4, using a ruler to get them straight. Be sure that they are true and parallel with the axis of the coil. At 90 degrees from these, or at one side if the first lines are uppermost, draw two more lines parallel with the first. Then, with a red-hot iron, burn off the insulation along these two marks between the pencil marks, ¼-inch apart. If the wire is cotton covered you may overcome any tendency of the cotton to burn irregularly from the lines by running a damp rag along the lines, or you may clean off the insulation with a sharp knife. However you do it, clean the wires until bright; if by any chance they bend or slip together, wind a string between the turns. If you have used bare wire, this burning off of the insulation will of course be unnecessary and for that reason I advise using bare wire and keeping the turns separated by twine, which may be removed after the coil is wound, although it does no harm if left there.

The coil may then be mounted by attaching it to the uprights by small screws driven through the bare end of the coil into one upright piece, as shown in Figure 5. This upright should be attached to the base, the coil fastened to it and the other upright slipped over the opposite end of the coil and fastened to the base but not to the coil. If holes are bored in the proper places through the base and into the upright before slipping it on the coil, there will be no trouble in securing it in position.

Next, cut two sections of the square brass tubing, each 1 inch in length and cut two strips of spring brass about ⅜ of an inch wide and 1/32-inch thick and bend in the form shown in Figure 6. Solder one end of each to each of the sections of square tubing as shown in Figure 6A. Bore a hole, a trifle more than ⅛-inch in diameter, through the opposite side of each section of brass tubing and over each solder a brass nut to fit the ⅛-inch brass screws. The easiest way to do this is to clamp the tube in a vise, fit a wooden pin through the nut, insert the end of the peg in the hole in the tube and while holding the nut in position solder it, as shown in Figure 6B. Then, cut the heads from two of the ⅛-inch brass screws, leaving about ¾ of an inch of the threaded shank, screw a thumb nut or knurled nut, such as you may obtain from an old dry battery, on the screw and solder it. Smooth off the solder and any projecting parts of the screw above the thumb nut with a file and wrap a little adhesive tape around the thumb-nut. (Figure 6C.)

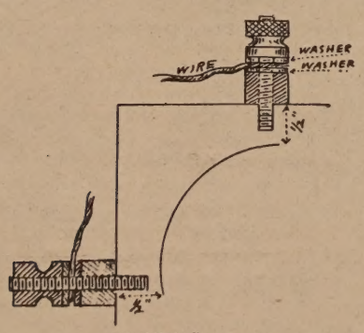


FIGURE 7

FIGURE 7A

Now slip a piece of the square brass rod through one of the sections of brass tube and lay the rod along the coil from one upright to another over the bared space on the coil wires (if they are insulated wires); when it is exactly parallel with the bared space (or with the coil if bare wire has been used), mark with a pencil where the rod comes on the uprights and cut the rod to the right length to come even with the outer edges of the uprights. Bore a ⅛-inch hole through each end of the rod, make a slightly smaller hole in the uprights under the holes in the rod, and screw one of the ⅛-inch screws into each of these. Clip off the heads of the screws, slip the rod over them, place a washer on each screw and secure the rod by means of a binding nut as shown in Figure 7, first placing a wire terminal under the washer on one screw. If you have done all this according to directions the spring on the under side of the slider should bear firmly against the wires on the coil. Then, by screwing the brass screw with the thumb-nut soldered upon it (Figure 6C), into the nut soldered to the slider you can secure the slider in any position and can move it back and forth by means of the tape-covered nut as shown in Figure 7A.

The other slider should be mounted on its rod on the uprights in exactly the same manner, but over the other bared space of the coil (or, if bare wires are used, on one side of the support parallel with the axis of the coil.

The next step is to mount the secondary or inner coil. This is done by first securing the two circular pieces of wood in a vise or clamp and boring two holes ¼-inch in diameter through both pieces a little above their center, as shown in Figure 8A. Bore another hole, large enough to admit all the tap wires and the two ends of the coil wires, through one of the wooden discs (Figure 8BC). Secure this disc in one end of the coil (first drawing the wires through the hole made for them), by small screws driven through the bare ends of the tube, as shown in Figure 8C. Then place the other disc in the other end of the tube and by sighting through the ¼-inch holes align it with the first one. It may help you to do this if you draw pencil lines along the coil, parallel with the axis, from the two holes in the first disc; it is highly important to have the holes in the discs come in perfect alignment, as otherwise your coil will not move evenly and truly on its rods after it is assembled.

When the second disc is in the right position, secure it as you did the first by small screws. Then slip the ¼-inch brass rods through the holes in the discs and wrap the coil smoothly with heavy paper, wrapping the paper on until the coil fits snugly inside the larger coil without forcing it. Rub some chalk or crayon on the ends of the rods that run through the small coil and while holding one of the 3 by 3 inch pieces of wood against the support to the large coil, press the two rods against it and turn them about until the chalk has marked spots where the rods touch. Then, clamp the two pieces of 3 by 3 inch wood together with edges even and bore ¼-inch holes through both where the chalk marks show. Slip the pieces over the rods and secure them to the base. Fasten one at the end of the large coil and the other near the opposite end of the base (Figure 9AB). Remove the rods and the small coil. Remove the paper wrapping from the coil and holding the coil in front of the large coil, slip the rods through one upright, through the two end discs in the coil and through the other upright. Cut the rods so that they are not quite flush with the outer sides of their supports and secure them in place with sealing wax as shown in Figure 9C.

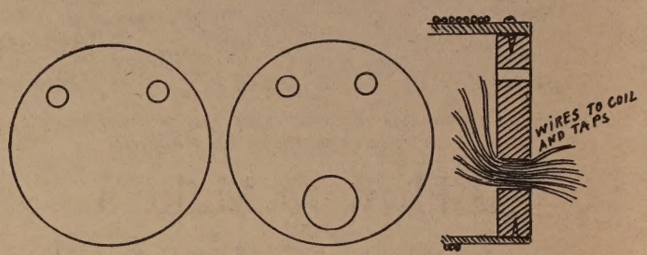


FIGURE 8A FIGURE 8B FIGURE 8C

All that now remains to be done is to connect the various wires. Each of the tap wires and one of the end wires of the small coil should be carried to a separate contact on a multiple point switch which is best mounted on the upright as shown in Figures 9 and 10. If you prefer, you

POSTAL IDENTIFICATION STATEMENT
The Horn Speaker (USPS 956120) is published monthly, except July and August by Jim Cranshaw, 9820 Silver Meadow Dr., Dallas, Texas 75217. Subscription rates are $5.50 per year, $11.00 two years. Second-class postage paid at Dallas, Texas. POSTMASTER: Send address changes to The Horn Speaker, P.O. Box 53012, Dallas TX 75253.

Subscribers, advertisers, photographers and writers, please use the following address;
THE HORN SPEAKER
P.O. BOX 53012
DALLAS TX 75253

may place the switch on the end disc of the coil itself, but I have found this a bad plan, as in adjusting the switch you invariably move the coil somewhat.

The coil should move freely but not loosely. The other end of the coil wire should be led to a binding post; another wire should connect the switch arm to a second binding post and the free end of the wire from the large coil and the two wires from the slider rods should be led to other posts, all of which is shown in Figures 9 and 10.

Always remember to wind both coils in the same direction, to use flexible wire for the tap and coil leads on the secondary coil and be careful and accurate in your work.

Do *not* shellac the coils after winding and *never* use paint or enamel varnish about the coils or wires. Countersink all screw heads in the wood, leave no rough ends or jagged edges to metal or wood and try to make the finished coil a credit to your skill and to your workmanship.

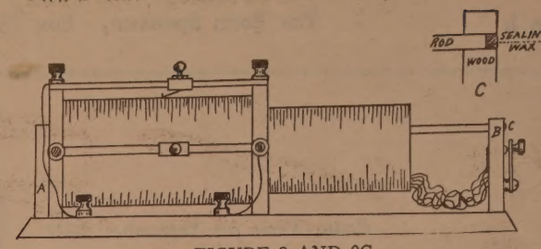


FIGURE 9 AND 9C

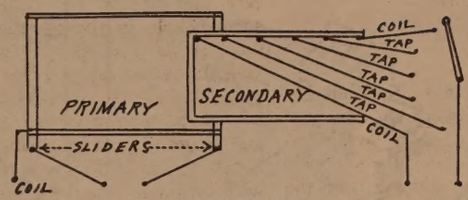


FIGURE 10

POPULAR RADIO

JULY, 1922

1980 OLDE TYME RADIO SPECIALS

ANTIQUE HEADPHONES $3.50 PER PAIR

AUTO RADIO VIBRATORS $3.00 EA

ELECTROLYTICS F.P. TYPE

Cap In MFD	Working Volts	PRICE
40X40	150V	$1.00 EA
50X100X40	150V	
50X40X40	250V	
20X20X20	200V	
30X20X20	450V	

TUBES - FROM THE 20's, 30's, 40's & 50's. USED & BRAND NEW MOST TYPES

ALL TUBES TESTED

{USED} {NEW} WRITE FOR QUOTE

TRANSFORMERS

A large variety of transformers; most types in substantial quantities.

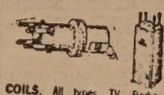
POWER TRANSFORMERS
STANCOR
PRI: 117VAC
SEC:
1) 350-0-350V @ 70MA.
2) 5.0V @ 2.0A
3) 6.3V @ 2.0A
OTHERS

PRICE $7.50 EA

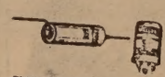
BRAND NEW

BROWN SILK TYPE POWER CORD .25/FT

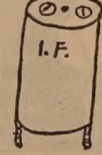
OLDE TYME TEST EQUIPMENT
WRITE US



COILS. All types. TV, Radio, Multiplex, Transistors, FM.
Price $1.75 EA



ELECTROLYTIC CONDENSERS. F.P. types. Tubular types. Single and multiple sections.
Price $1.00 EA



BRAND NEW I.F. TRANSFORMERS 175KC AND OTHER POPULAR FREQUENCIES $2.50 EA

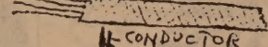
OSC. COILS 175KC AND OTHER POPULAR FREQUENCIES $2.00 EA

- OLDE TYME SINGLE CONDUCTOR CLOTH INSULATED WIRE. ASSORTED COLORS .12/ft
- OLDE TYME BAKELITE BINDING POSTS (SINGLES) .50EA OR 3/$1.00
- OLDE TYME BAKELITE BINDING POSTS (TRIPLES) $1.00 EA OR 3/2.50
- OLDE TYME RADIO PANEL LAMPS 2.5V, 3.8V, 6.3V SCREW BASE OR BAYONNETTE STATE YOUR NEEDS
- INTERSTAGE & OUTPUT TRANSFORMERS $4.00 EA
- OLDE TYME PORTABLE CABINET HARDWARE WRITE

OLDE TYME SCREW BASE CAPACITORS POPULAR MFR $2.00 EA

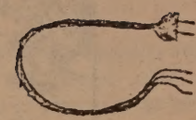
SPECIAL
EXACT REPLACEMENT RADIOLA II AND III LEATHER HANDLES ONLY $4.50

OLDE TYME RADIO BATTERY CABLE



4 CONDUCTOR BROWN - ALL CLOTH ATWATER KENT STYLE .75 PER FT

3-CONDUCTOR SAME AS ABOVE .50/FT



RESISTOR LINE CORD REPLACEMENT KITS FOR USE WITH SETS EMPLOYING 0.3A TUBES (6A7, 6D6, 75, 43, 2525 ETC)

MODEL
RLC-1 4 TUBE SETS $3.50
RLC-2 5 TUBE SETS 4.50

FOR OTHER COMBINATIONS PLEASE WRITE FOR DETAILS

NOW AVAILABLE

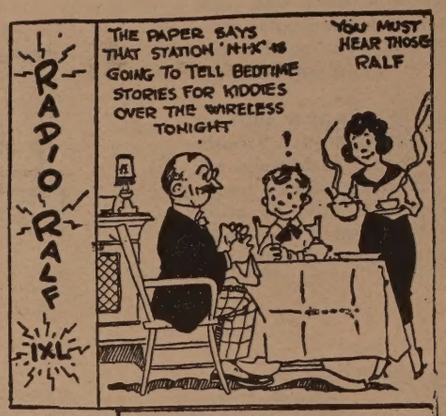
6-CONDUCTOR BROWN - ALL CLOTH ATWATER KENT STYLE $1.00 PER FT

PLACE YOUR ORDER NOW

ANY SCHMATIC FOR SETS MANUFACTURE FROM 1920 THRU 1940 $1.50

ORDER FROM:
OLDE TYME RADIO CO.
2445 LYTTONSVILLE RD.
SILVER SPRING, MD. 20910
PHONE: 301 585 8776
PRICES DO NOT INCLUDE SHIPPING & HANDLING CHG.

Radio Humor


RADIO RALF IXL
THE PAPER SAYS THAT STATION 'N-H-X' IS GOING TO TELL BEDTIME STORIES FOR KIDDIES OVER THE WIRELESS TONIGHT
YOU MUST HEAR THOSE RALF

Left: Abstracted from the N. Y. Globe

Right: Abstracted from the N. Y. Evening Telegram

Below: Abstracted from the N. Y. Tribune

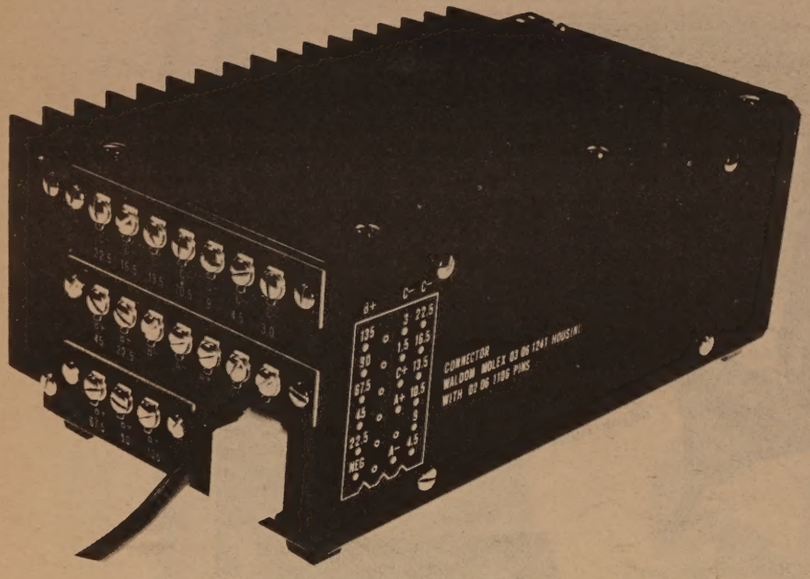
OH, MAN!

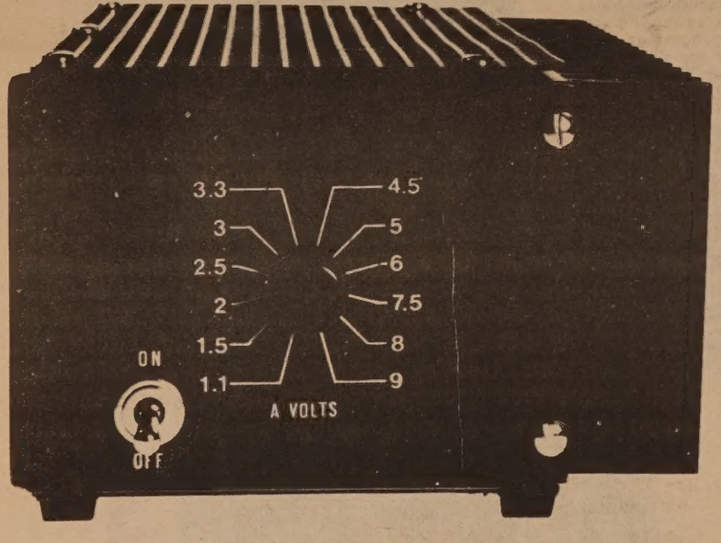
BILL THIS RADIO-PHONE IS GREAT STUFF - DID YOU EVER HEAR ONE?
NAH
BILL YOU MUST COME UP TO THE HOUSE SOME EVENING AND LISTEN TO OUR RADIO OUTFIT - GREAT STUFF
UH!
BILL - I'VE JUST HAD A RADIO INSTALLED - COME OVER AND HEAR IT - IT'S GREAT STUFF
UH-HUH
OH WELL - I'VE BEEN OVER TO THE BOSKIRKS AND THEY'VE GOT A RADIO-PHONE AND IT'S JUST MARVELOUS! WHY CAN'T WE HAVE ONE?
YOU'VE GOT THE BUG TOO EH?
AND SO HE BOUGHT ONE
WELL - I'LL - BE - - !!☆!!
HANK YOU OUGHT TO COME UP TO THE HOUSE AND HEAR MY RADIO - IT'S GREAT STUFF
BILL THINKS HE'S DISCOVERED SOMETHING
WHY CERTAINLY YOU SIMP - - I'VE GOT ONE OF MY OWN - I'VE BEEN TELLING YOU
HE'S A NUT ON THAT SUBJECT
BRIGGS

CREDIT GIVEN

Last month we published puzzle drawings entitled "Simplified Radio". By an oversight, we failed to give credit, for suggesting these, to Mr. Edward Bratter of New York who submitted rough sketches of the drawings. We correct this with apologies to Mr. Bratter.

the ANTIQUE APPARATUS Co.





H-10A POWER SUPPLY

Our New Power Supply At Last Year's Prices

The new H-10A has arrived. A premium quality power supply made of specially designed high quality components (no surplus or used parts).

And it's not being assembled in someone's garage. The H-10A has been contracted by a top-rate manufacturer who builds power supplies primarily for the laser industry. Thus it is fully warranteed for a full year.

NEW! "Molex plug" has been added for easier operation of your radios.

The Model H-10A is a premium quality regulated power supply. Very compact and highly engineered, it is designed to power over 99% of all battery radios manufactured between 1920 and the end of the vacuum tube era around 1960.

5 Amps of Power! More than twice the output of any other power supply on the market.

And no other power supply offers as many features or regulated outputs as the H-10A.

There are three independent, electrically isolated, regulated power supplies. The "A" supply provides 12 switched outputs between 1.1 and 9V. The "B" supply can deliver up to 5 *simultaneous* regulated outputs. The "C" supply can deliver up to *8 simultaneous* outputs. All outputs feature electronic short circuit protection.

Order now and save! Introductory price **$149.95** including postage in USA.

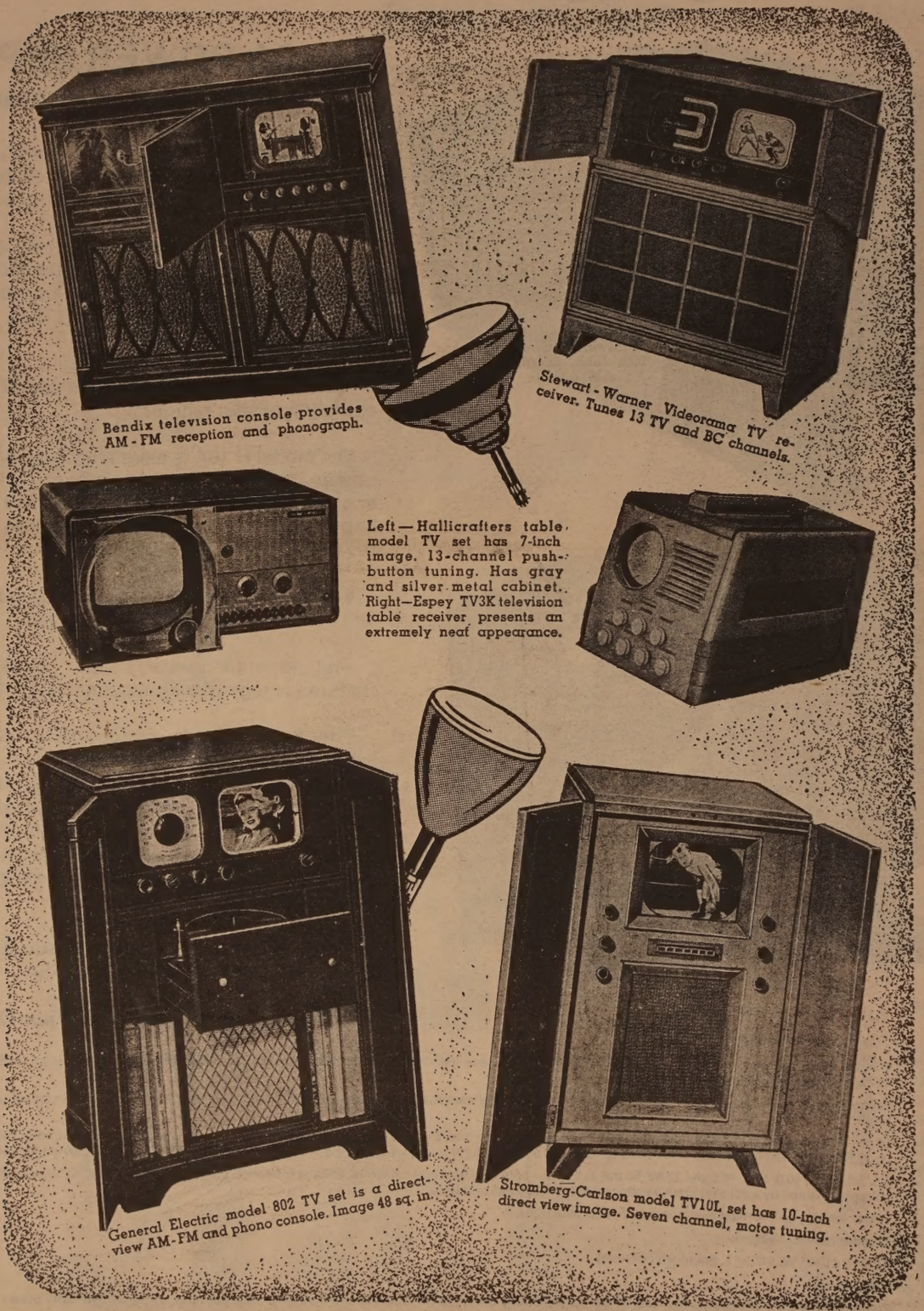
Offer Good For A Limited Time Only.

H-10A SPECIFICATIONS

Input voltages	117V AC, 50-60HZ, 80W maximum. 1.1, 1.5, 2.0, 2.5, 3, 3.5, 4.5, 5, 6, 7.5, 8, 9
"A" Output	Single output switch selected, short circuit protected, ripple less than 2.5 millivolts RMS @ 5V and 5A, regulation 0 to full load .02% @ 5V voltage tolerance 5%, overload protection. Using the 1.1V, 3.3V and 5.0V output, allow operation of appropriate tubes with no danger of burn-out from improper filament rheostat adjustment.
"B" Output	22.5V, 45V, 67.5V, 90V and 135V may be used in any combination with a maximum total output of 50mA. Ripple is less than five millivolts RMS @ 22.5V and 50mA to less than 14mV RMS @ 135V and 50mA, voltage tolerance 5%, voltage regulation 0-50mA 2.5% fold-back current limiting.
"C" Output	1.5, 3.0, 4.5, 9, 10.5, 13.5, 16.5 and 22.5V; 50 mA @ 22.5V, ripple less than one millivolts, voltage tolerance 5%, regulation 0.1% at 22.5V. All other voltage obtained by a 25mA resistive voltage divider. Overload protected.
Controls	Power switch, "A" voltage selector switch, LED pilot light.
Line Cord	Three-wire, 6 ft., heavy duty.
Size	3¾" H. x 5¼" W. x 9½" L. (includes controls).
Weight	5 lbs., 14 oz.
Limited Warranty	Warranty is limited to repair or replace, at our option of any defect in materials or workmanship for a period of one year. Warranty does not cover shipping costs.
Ordering Information	Include check or money order for $149.95 to The Antique Apparatus Co., 11650 Riverside Dr., No. Hollywood, CA 91602. We will pay for shipping in the USA. California residents add 6% sales tax. Canadian residents add $5.00 for postage.

11650 Riverside Dr. No. Hollywood, CA 91602 (213) 506-1169

1948 Televiser Parade



Bendix television console provides AM-FM reception and phonograph.

Stewart-Warner Videorama TV receiver. Tunes 13 TV and BC channels.

Left—Hallicrafters table model TV set has 7-inch image. 13-channel push-button tuning. Has gray and silver metal cabinet. Right—Espey TV3K television table receiver presents an extremely neat appearance.

General Electric model 802 TV set is a direct-view AM-FM and phono console. Image 48 sq. in.

Stromberg-Carlson model TV10L set has 10-inch direct view image. Seven channel, motor tuning.

1948 Televiser Parade

Remington 12-inch tube television receiver, covers all FM channels. Another model has 15-inch tube.
United States Television large screen (19 by 25 inches) TV set; intended for public places.
Farnsworth table model has 10-inch tube, 52-square-inch image. An AM adapter can be used.
Belmont table set with 7-inch picture tube. Covers all 13 TV channels and employs 21 tubes. Provides FM reception. The cabinet measures 14½ by 21 by 16 inches.
Videograph-Emerson coin-in-the-slot television receiver — also supplies music and song from phonograph records. Table control is also available.
Transvision 12-inch tube television "Kit" set. Picture size 75 sq. in. Factory-tuned R.F. unit. All TV channels covered. 22 tubes. Home assembly.

RADIO-CRAFT for OCTOBER, 1932

A PORTABLE PHONO-RADIO RECEIVER-RECORDER

By DR. F. NOACK*

● The idea outlined in this description of a novel German development, introduced at Leipzig Spring Fair, may be applied in many ways.

AT the recent German Radio Exposition were shown by the German industry several sets for the home-manufacture of phonograph records. With only one exception, these were so designed that only an amateur radio enthusiast could manipulate them—since they consisted mainly of the components requisite to making such records, and were not designed for convenient operation by the layman.

This exception was the equipment introduced under the name Schacktograph; it is illustrated in Fig. A in finished form and is the instrument shown at the succeeding Leipzig Spring Fair.

The Schacktograph incorporates a radio receiver chassis which includes a 3-stage A.F. amplifier capable of delivering an output of 2.5 watts; the output of this section of the instrument feeds into a magnetic reproducer which also is part of the assembly; then, there is the turntable and its associated motor; finally, there is a microphone and a recording-reproducing head. (To meet the demands of German power systems the Schacktograph is designed to operate at 110, 127 or 220 volts, A.C.)

By means of a switching system it is possible to arrange the circuit for a number of services, to wit: (1) Disc recording of radio programs; (2) disc reproduction of radio programs; (3) disc recording of impromptu programs; (4) disc reproduction of impromptu programs; (5) radio program reproduction.

In this particular machine the cutting needle may be steel, diamond or sapphire. The magnetic reproducer may be conveniently disconnected from the circuit, and the output run into a dynamic reproducer, if desired; the field excitation current being supplied at terminals on the receiver. The magnetic unit built into the chassis is used not only to reproduce the radio programs picked up by the set, but also as a means of monitoring the audio output of the A.F. amplifier portion of the assembly, before or during the recording of impromptu programs (such as singing or talking by the operator or his friends, etc.).

A device of this nature achieves a versatility combined with utility that certainly places it in a class by itself. In this instance of bringing "the mountain to Mohammed," the only requisite is a 110-volt power line.

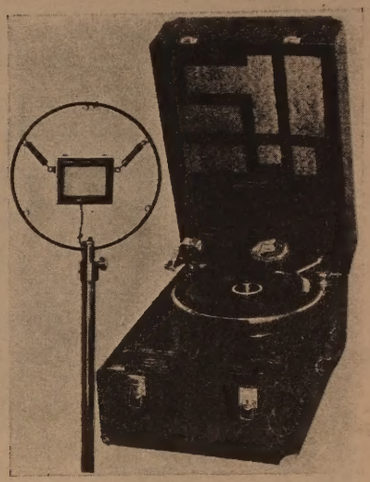
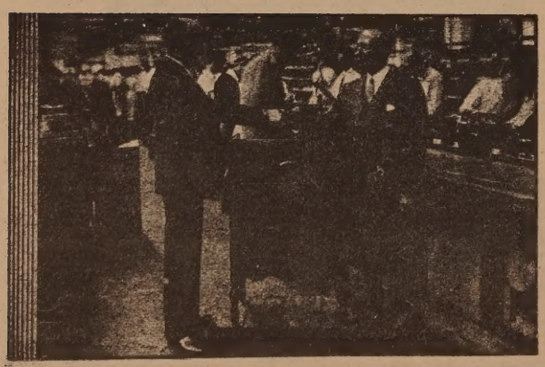


Fig. A. The Shacktograph receiver-recorder.

*Berlin Correspondent.

THE THREE MILLIONTH ATWATER KENT SET



A. Atwater Kent congratulates his Production Manager, G. I. Macharen, on the completion of the 3 millionth Kent receiver.

The production of 3,000,000 radios by the Atwater Kent Company sets a record for number of sets manufactured by any one single company. A. Atwater Kent, president of the company, and looked upon as one of radio's outstanding leaders, in commenting on the production of his 3,000,000th set, said:

"The best answer I can give to what I think of the future of the radio industry is the 3,000,000th Atwater Kent Radio, produced this week.

"With the demand for the new Golden Voice radio exceeding all expectations and our factory steadily increasing production, the immediate outlook is indeed bright.

"We are starting toward the production of our 4,000,000th radio with an unshaken faith in the future of American business prosperity."

RADIO FOR OCTOBER, 1930

PUETT ELECTRONICS

PUBLISHERS OF P.O. BOX 28572 DALLAS TEXAS 75228

ANTIQUE RADIO TOPICS &
THE CLASSIC RADIO NEWSLETTER

NEW

1980 PRICE GUIDE FOR ~~

THE ENCYCLOPEDIA OF ANTIQUE RADIO
VOLUME 1
BY JWF PUETT
PUETT ELECTRONICS
PUBLISHERS OF P.O. BOX 28572 DALLAS TEXAS 75228
ANTIQUE RADIO TOPICS &
THE CLASSIC RADIO NEWSLETTER

$2.00 POSTPAID

THIS NEW 1980 PRICE GUIDE LISTS THE CURRENT MARKET VALUE OF EVERY RADIO RECEIVER AND ITEM DEPICTED IN VOLUME 1 OF THE ENCYCLOPEDIA OF ANTIQUE RADIO!

A REVISED PRICE GUIDE WILL BE OFFERED EVERY TWO OR THREE YEARS AS SIGNIFICANT CHANGES OCCUR IN THE MARKET VALUE OF ANTIQUE RADIOS AND RADIO-COLLECTABLES.

THE VALUES LISTED IN THIS PRICE GUIDE HAVE BEEN DETERMINED FROM AN ANALYSIS OF RECENT PRICES OBTAINED FOR IDENTICAL OR NEAR-IDENTICAL ITEMS. ONLY AVERAGE VALUES HAVE BEEN CONSIDERED. ISOLATED SALES WHERE SPECIFIC ANTIQUE RADIO ITEMS HAVE SOLD FOR EXTREMELY HIGH OR LOW VALUES HAVE NOT BEEN CONSIDERED. WE HAVE ENDEAVORED TO BRING YOU FAIR AND ACCURATE EVALUATIONS.

club news

Four of the dedicated officers of the Houston Vintage Radio Association Left to right: Frank Cooper, George Maczali, Bill Werzner and Jerry Wallick

HOUSTON RADIO CONTEST

Houston radio collectors are polishing up their sets for the March 1980 contest. They want everyone to come in and help them make their first contest a great success. Fenton Wood, a valuable officer of the Association, is now working on the preparations of the contest rules and the procurement of trophies. Fenton is now gathering information on contest procedures.

The two large national radio clubs, Antique Wireless Association and Antique Radio Club of America have always gathered large measures of success and interest in their contests. The Houston Club is interested in giving more areas of interest to their membership. For more information on what the Houston Club is doing write to: Houston Vintage Radio Association 4215 Ravine Drive, Friendswood TX 77546. Out of area membership over 150 miles is only $6.00.

Cecil Melville, a Houston radio collector is on the right, next to him is Jim Cranshaw with The Horn Speaker.

letters

Dear Sirs:

I ran across a copy of your publication in Akron, Colo. at Donna's Art and Antiques and am enclosing a check for a subscription.

I need help---can you tell me where I can get a replacement needle for an Edison Cylinder machine?

Who can tell me how to play the thick Edisons thru my stereo?

Any help you can give would be greatly appreciated.

Yours,
Doug Reetz
Box 1
Potter NB 69156

Dear Jim,

Inclosed is a check for $5.50 for my subscription to The Horn Speaker.

To make Bakelite panels shine like new, I rub household parafin on them until I have them well but thinly coated. I use a polishing cloth to bring out the shine and then apply an acrylic floor polish. When the polish dries, a very light polishing with the cloth makes them shine like new.

To fill any gouges before the above procedure, I use a black crayon, just melt the crayon into the gouge and scrape it level with a razor blade.

If anyone has a better method, please have them write an article.

Sincerely,
Richard Ray
423 Orchard
Canon City CO 81212

Dear Jim:

Inclosed find check in the amount of $5.50 for my renewal subscription.

I enjoy your good work in putting this all together for us.

Keep up the good work.

Sincerely,
Johnnie Walker

Gentleman:

Friend of mine here in Florida gave me your address.

I have a Scott radio 23 tubes custom build for sale. Don't know of any people interested here.

Could you give me somebody in St. Pete, who would be interested.

It is 44 years old in good working order. I am asking $400.00 for it, paid $725.00.

Yours truly,
Ed. Kral
776, 21st Ave. N.
St. Pete FL 33704

Dear Jim:

I knew I forgot something. Something was missing. I guess I've been working too hard for the last couple of months. Anyway when I cranked up (literally!) my German lifeboat transciever of ancient vintage and obscure manufacture (Telefunken, early post WWII), and enjoyed several Maritime Mobile QSO's on 40M I remembered the generous response to my query in the Horn Speaker, and now, returning from an extended work voyage in the Carribean, where else but in an attempt to compete for "Find of the Month" can I report my acquisition of a mint copy of Edison's "Greetings From the Bunch at Orange" for 25¢ U.S. in a junk shop on the island of Dominica (Recently destroyed by Hurricane David).

Please accept my check for $11.00 and renew my lapsed subscription.

Sincerely yours,
73's
Ray Carifio
413 Cadagua
Coral Gables FL 33146

Dear Jim:

Always a pleasure to renew my subscription to your great Horn Speaker.

Have had two interesting finds this year and will send you pictures when get a chance to take them. Strangely, both were grandfather clock radios. One was near-mint Philco grandfather of 1932 illustrated in Flick of the Switch. The other was good condition Westinghouse grandfather illustrated in Puett's Appraisal of Antique Radios.

Also unearthed small supply of original square (and round) 1920's hook-up wire, plus enclosed Murdock condenser, spark coil, wooden case meters, etc.

Best for the '80's
George Kitchen
137 New Bridge Road
New Milford N.J. 07646

Hi Jim:

Just passing information on to you about our newly formed club. On November 1st, eight interested people met in Little Rock to form the Arkansas Antique Radio Club. We elected the following officers;

Jim Sargent--president
Tom Burgess--vice-president
Ray Poindexter--secretary
Joe Ballard--treasurer

Since that meeting, we have had several inquiries which has boosted our membership to 20.

We have had extensive Radio and newspaper coverage.

Looking forward to seeing you at a future meeting.

Jim Sargent
229 Harrold St.
Jacksonville AR 72076

Dear Jim:

I must hurry and get my check in the mail, as I certainly do not want to miss any copies. It is truly an interesting paper. Enjoyed the ad put in by Tom Rutherford wanting a Scott set. A year ago I [illegible]kily acquired a Chippendale Grand... I really do enjoy it.

Hope all is well with you.

Sincerely,

Dorothy E. Bush
631 Glenhaven Dr.
Lincoln NB 68505

From: Will Jensby

RADIOLA III

Improved operation of the Radiola III may be realized when it is equipped with the new type Radiotrons. Two methods are here suggested: the first is particularly recommended for reception of signals from distant broadcast stations where higher voltage amplification is desired; and the second, which makes available greater loud speaker output without distortion, is particularly recommended for loud speaker operation from local stations where the input energy to the receiver is high.

Method I: (See Figure 4)

Two UX-199 Radiotrons are used with a 20 ohm external Rheostat to control the filament current. The following equipment is required.

1 Radiola III (Stripped)
1 Radiola Loud Speaker UZ-1325 or Model 100
2 Radiotrons UX-199
2 Na-Ald Adapters Model 421-X or Marco Adapters No. 206

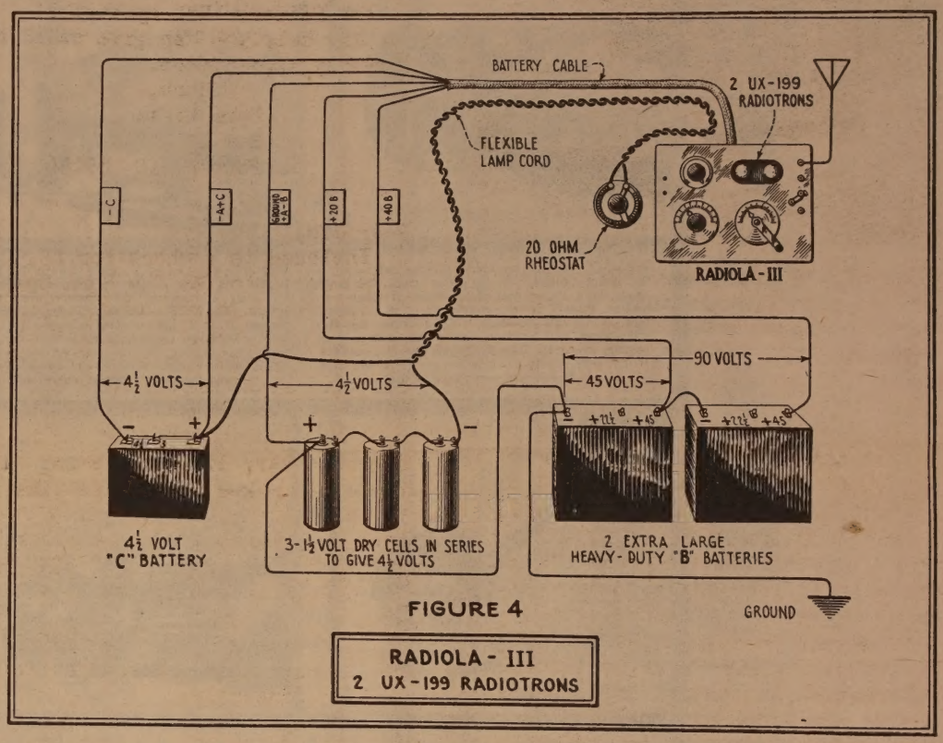


FIGURE 4

ATTENTION RADIO COLLECTORS !!!

NOW YOU CAN PLAY "OLD TIME RADIO" OVER YOUR VINTAGE RADIO !

TIRED OF LISTENING TO TODAY'S RADIO PROGRAMS ON YOUR ANTIQUE BATTERY OR A.C. RADIO? TUNE IN OLD TIME RADIO BY USING MY ANTIQUE RADIO BROADCASTER TO PLAY THOSE OTR CASSETTES BY WIRELESS THROUGH YOUR SET. THE UNIT IS A MODERN SOLID-STATE 3-TRANSITOR, 9 VOLT BATTERY-POWERED CIRCUIT CAPABLE OF BROADCASTING BETWEEN 600-1500 KHz AM TO SETS 30 FEET AWAY. SIMPLY ATTACH THE INPUT CABLE TO YOUR CASSETTE PLAYER, TURN IT ON, AND SIT BACK AND ENJOY OLD TIME RADIO COMING FROM YOUR SET.

THE ANTIQUE RADIO BROADCASTER IS HAND-BUILT TO YOUR ORDER AND FEATURES A TUNING CONTROL TO ALLOW YOU TO BROADCAST ON A CLEAR AM RADIO FREQUENCY. UNIT IS COMPLETE, TESTED AND READY TO OPERATE (YOU SUPPLY OTR CASSETTE, PLAYER AND VINTAGE RADIO!). PRICE: $39.95 PLUS SHIPPING (UPS OR PARCEL POST).

FOR MORE DETAILED INFORMATION, SEND A SASE TO:

HARRY E. BURKE 1201 HAPPY HOLLOW PLATTSMOUTH, NE 68048

NOTE: THESE UNITS ARE OFFERED AS A SERVICE TO FELLOW ANTIQUE RADIO COLLECTORS AND NOT FOR COMMERCIAL TRADE OR GAIN. UNIT COMPLIES WITH FCC PARA. 15.204, LOW POWER COMMUNICATIONS DEVICES.

E. V. Schwartz
Los Angeles, Calif.

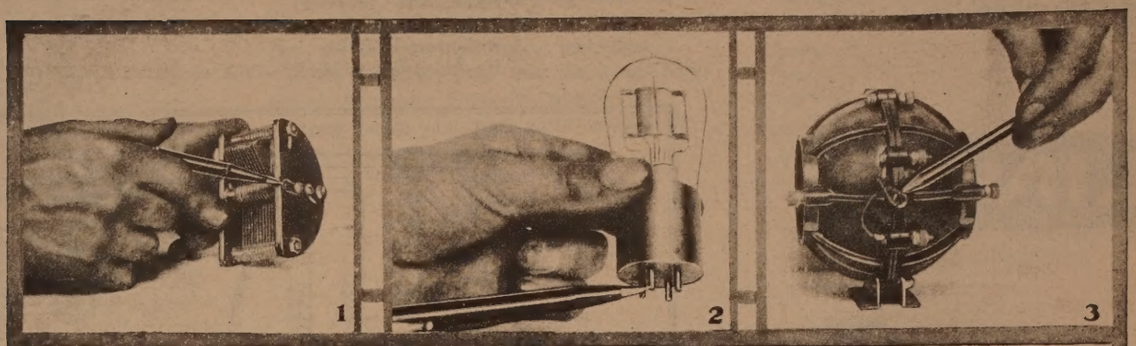
"Must have made a mistake in the wiring somewhere!"

RADIO-CRAFT for JANUARY, 1948

Radio Trouble Shooting

Illustrating Several Places Where Trouble May Be Encountered.

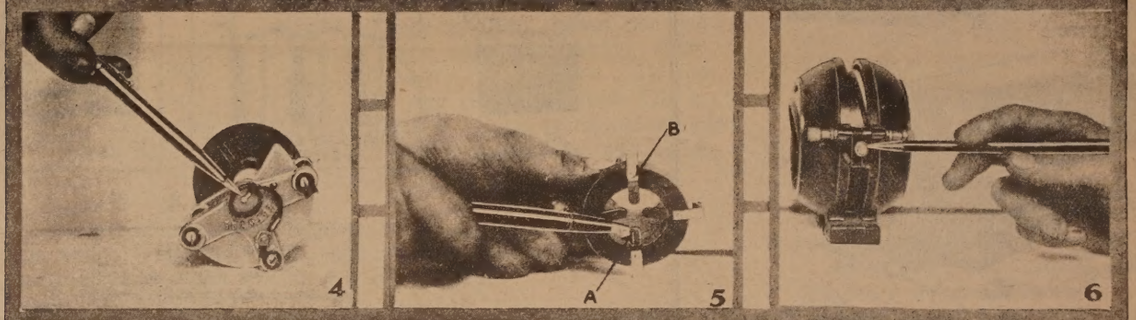
BY JACK MILLIGRAM.



One of the greatest bug-bears of radio instruments is the sliding contact. In the above photo, the pencil points to a sliding contact by means of which connection is made to the rotating plates of a standard type of variable condenser. Great losses are very often found here especially when the contact lever becomes loosened. Such connections should be avoided. If it is necessary to purchase instruments of this type, a flexible lead wire should be used.

Very often the base of a vacuum tube is the seat of trouble in a radio receiving set, but usually this is the last point considered by the amateur when hunting trouble. The pencil in the above photograph points to the end of one of the prongs of a vacuum tube. This point should be carefully cleaned with fine emery paper, making sure that no traces of the emery are left in the soft solder found at this point. Corrosion should not be tolerated at these prongs.

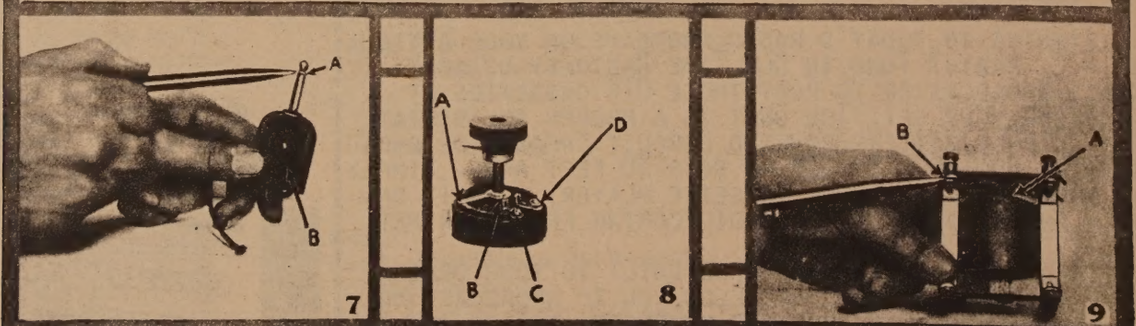
Variometers also have their troubles when it comes to the question of making connections to the interior or rotor coil. Above is shown one of the best forms of making such connections. The shaft on which the rotor is mounted is a hollow brass tube and through it are brought the leads from the rotor windings. These leads are of the flexible or "pigtail" type. Stops must be employed so that the rotor will not turn through more than 360 degrees.



The main trouble with rotary variable condensers was illustrated in Fig. 1. Above in Fig. 4 is shown a standard type of variable condenser in which this trouble is eliminated by the manufacturer. It is necessary for the "pigtail" to turn so as to follow the rotary shaft. Therefore, it must be thoroughly flexible so that it will not break after being turned several times. Here again stops should be provided so that the pigtail cannot twist too far.

Now we come to the troubles of the sockets into which the vacuum tube illustrated in Fig. 2 fits. Many radio ailments are attributed to innocent sources when in reality the blame should be laid on the vacuum tube socket. In the type illustrated above, point A shows one of the lugs bent out so that it does not make contact with the base of the tube. Point B shows where poor contact is very often found between the binding post support and the spring.

The best type of connection for the rotor coils of a variometer is shown in Fig. 3. Above, in Fig. 6, we illustrate a type of variometer which depends upon a sliding contact to connect the rotor coils to the external circuit. Sometimes this works very well, but after much use the bearings usually become enlarged from constant wear and fail to make proper contact. Obviously, such points cannot very well be lubricated and, therefore, the wear increases greatly.



A indicates the small insulating disc placed between the two parts of the plug which make contact with two separate springs in the jack. Very often this ring is made of fibre and when it absorbs moisture from the air it becomes a partial conductor. This point should be watched carefully. B indicates the portion of the plug in which contact is made between the phone tips and the plug. Only the type of plug which grips the phone tips firmly should be used.

There are several points on a rheostat which can give rise to trouble. In the above illustration, A indicates the contact arm. Sometimes this arm becomes loosened or the spring is weakened whereupon it fails to make contact with the coil. B indicates the connection between the switch arm and the shaft. This should be kept tight. At C is connected one end of the resistance wire. The binding posts at C and D should always be kept tight.

Very often the troubles in transformers are due to something which may readily be fixed. For instance, the connection indicated by B very often becomes loose, or if it is soldered, it sometimes becomes unfastened from the base of the binding post. A indicates the connection between the leads to the binding post and the actual windings of the transformer. No amount of strain, however small, should be placed on these leads under any condition.

The "WARBLER"

Pathé

SPECIFICATION:

Solid Oak Cabinet, with hinged lid.

Silent running double spring worm-driven Motor.

Artistically Spun Horn; or with Spun Brass Horn (bell 22 ins., length 22 ins.); or with Resopan Horn (bell 21½ ins., length 23 ins.).

Accurate Speed Indicator.

Tapered Tone Arm.

New Pathé Multitone Sound Box, with unwearable Sapphire.

10-in. Turn-table.

Height 7½ ins., width 15 ins., depth 15 ins., weight 22 lbs.

BACK ISSUES

ORDER NOW!

All 10 for 1073...$8.00
Single..$1.00
All 10 for 1974...$6.00
Single..75¢
All 10 for 1975...$5.00
Single..75¢
All 10 for 1976...$5.00
Single..75¢
All 10 for 1977...$5.00
Single..75¢
All 10 for 1978...$5.00
Single..75¢
Single issue for 1979....$1.00

THE HORN SPEAKER
Box 53012
Dallas, Texas 75253

PRICE INCREASE DUE TO PRINTING PRICE INCREASE

The subscription rate for The Horn Speaker after March 1, 1980 will be $7.00 yearly--$12.00 for two years. First class will be $12.00 yearly--$20.00 for two years.

Remember only $12.00 for two years at regular rates.

Old rates apply until March 1, 1980.

Rates for THE HORN SPEAKER
One year.....$5.50
Two years.....$11.00
Special rates for one year (mailed in envelope)
First class.....$10.00
Foreign Air Mail...$16.00

mart

PHOTO ADS ONLY $2.00 EXTRA

Classified ad rate: 6¢ per word.
Photo ads: $2.00 extra.
Deadline: 20th of the preceding month.

FOR SALE OR TRADE

Westinghouse electrical supply catalog 1,444 pages, 1920, perfect, $12.00. Old General Radio Decade Resistance Box, walnut, perfect, $17.00. Potentiometer from National Bureau of Standards, Rubicon, walnut cabinet, perfect, $45.00. Please include postage. J. Denny, 2929 N. Westmoreland, Arlington, Virginia 22213.

FOR SALE OR TRADE: QST's from 1916, CQ's from 1946, Handbooks, call books. Radio magazines and books, Catalogs, old Radio tubes and radio parts. List for SASE. Erv Rasmussen, 164 Lowell St., Redwood City CA 94062.

FOR SALE OR TRADE

Gray Endurance Battery like Edison VR page 215, nice, 60 cells & all electrodes $105.
Shepard-Potter thermiodyne w/6 tubes nice $155.
AK 20 compact w/tubes $80. nice.
S. Gernsback Radio encyclopedia 1927, nice $75.
McGraw-Hill Radio Trade catalog, Nov., 1926, Nice $50.
Signal Electric solid brass telegraph key, with attached copper clamp $50.
Silver Marshall "B" eliminator VR page 217, $75.
Side Winder key $50.
Vibroplex Bug type key $50.
2 repeaters $50. & $60. W. E.
Sterling R-510 tester, nice $105.
Westinghouse foot candle meter calibrated 8-15-18 w/book $105.
Westinghouse cabinet portable DC vol. meter 1-5V & 1-50V nos. $50. pair.
Westinghouse square meter with 4 terminals on sides +-2.5-5-50V $25.
Beede meter 0-300V, 4 prong tube type plug in base $30.
German Flechtheim superior voltmeter for B eliminators $30.
Apollo Medical apparatus, oak, nice $105.
Coil-wood loop vertically mounted on round base w/leveling screws, 8 term. not home made, oak $95.
Ansley projection television looks nice (commercial) $575. you pick up.
Bleadon-Dun Co. 44977 quack machine OK $50.
McIntosh no. 7044 combined Galvanic and Faradic Battery serial 14693, OK, no accessories $50.
Valley Charger, OK $75. pat. Sept. 4, '17.
Renulite Electric Co. model H quack machine w/2 electric assec., Sept. 30, 1919 pat. date, OK $55.
Beautiful diaginally split oora. cabinet, pat. 20 March '88. F. Gotto and Sons, single cell $250.
Watch case, battery meters, several $20. each.
Type DKU 623 Westinghouse grid glow tubes OK filament like Radiotron UV 204A VR page 56, (2) $75.
Raditron UV 204A filament open $25.
DeForest Audion type tube $80.
Some other tubes inquire. Will accept trades for items listed:
AK breadboards, outside horn phonos, DeForest etc.
Steve Sideroff, 47 Dutch Lane Rd., Marlboro N.J. 07746.
Money order or wait for clearance on personel checks. Everything shipped UPS post paid, except Ansley TV.

FOR SALE: WIRELESS SPECIALTY APPARATUS CO. IP-76 (1906). OFFERS. Richard Sepic, 1945 E. Orange Grove Blvd., Pasadena CA 91104. Ph: (213) 791-3222.

FOR SALE OR TRADE

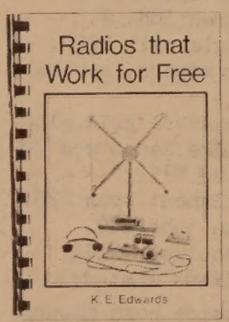
TUBES FOR OLD RADIOS, TV's. Most are $2.00 new, $1.00 used, plus postage, insurance. Tested before shipment. Good used UX201A's $4.50 each, plus postage. Send wants with SASE. Weibezahl, 305 Belvidere Ave., Washington N.J. 07882..

FOR SALE: Q.S.T. magazines covering the years 1940 thru 1963. A few issues missing, the majority are in very good condition, $75. for the lot. SASE for detailed list of QST magazines. Herman Fothe, 10 Jackson St., Sloatsburg NY 10974.

SEND NEWS AND ARTICLES TO THE HORN SPEAKER

FOR SALE: DIAMOND PHONOGRAPH NEEDLES FOR ALL MAKES AND MODELS. $5.00 ea. PLEASE SEND OLD NEEDLE IF POSSIBLE, OR MAKE AND MODEL NUMBER OF PHONOGRAPH. STEEL NEEDLES ARE AVAILABLE IN PACKAGES OF 25 FOR $1.00. RECORD CLEANING CLOTHS WHICH CONTAIN AN ANTI-STATIC SOLUTION ARE AVAILABLE FOR $1.25 ea. ALL ITEMS ARE POSTPAID. ORDERS TO: KEITH ELECTRONICS, 209 BELLEFONTE AVE., LOCK HAVEN PA 17745. ALL NEEDLES CARRY A ONE YEAR FREE REPLACEMENT GUARANTEE. SEND YOUR ORDER TODAY..

Radios that Work for Free



"Radios that Work for Free" is a "How to" book for all ages. This is the most comprehensive work of its kind. Not only does the reader get a new hobby, but the skills necessary to continue in a science and art that needs revival. The projects can be built from recycled junk on the kitchen table by the novice with assured success. Years of research and countless hours of experimentation have been accumulated to provide this base for the beginner. You will fill many hours building, listening and experimenting with "Radios that Work for Free."

ORDER FORM

HOPE and ALLEN
Publishing Company
P. O. Box 535
Belmont, California 94002

Please place my order for____copies of "Radios that Work for Free" by K. E. Edwards at $5.00 per book. (CA. add 6% tax) Please add 50¢ for postage/shipping. Check must accompany order.

Ship to: _____

FOR SALE OR TRADE

RADIOLA VIII console cabinet, stripped to refinish. Excellent condition. Also separate Radiola VIII chassis, less tubes. Offer or trades. Baldwin head phones, broken green cord, excellent, $20. Also some E. H. Scott receivers, console cabinets, good condition, with tubes, not restored. Offer? Have bound copy 1916 Electronic Experimenter Jan-June, brown leather, mint. Offer?
S. A. Cisler, P.O. Box 1644, Louisville KY 40201. Mail only SASE..

FOR SALE: OLD RADIO'S, TUBES, HORNS. SPEAKERS, RADIO PAPER, TUBE TESTERS, PLUS MORE. LIST 1-80 50¢ PLUS LARGE SASE W/2-15¢ STAMPS.
KRANTZ, 100 OSAGE AVE., SOMERDALE N.J. 08083..

FOR SALE: AUTHENTIC REPLICAS: FRONT PLATES FOR AK VARIO COUPLERS, VARIOMETERS, TYPE 11 TUNER, DIALS, KNOBS, POINTERS, BINDING POST NUTS, PUSH BUTTONS, BELT DRIVE PULLEYS FOR AK AND MUCH MORE. SASE FOR LISTINGS.
K. PARRY, 17557 Horace, Granada Hills CA 91344.

FOR SALE: BATTERY RADIOS and A.C. SETS. SEND S.A.S.E. FOR LIST. WANTED: PARTS FOR RCA RADIOLA IV, AND WD11's ANY CONDITION.
Raymond Thompson, 7422 Cherry Tree Drive, Fulton, Maryland 20759.

FOR SALE: DE FOREST REPLICA PARTS, ALSO ONE ACMEFLEX RECEIVER, IT HAS THREE STAGES OF UNTUNED R.F., THREE STAGES OF REFLEXED AUDIO AMP. AND CRYSTAL DETECTOR. ALL OF THE TRANSFORMERS ARE GOOD, A VERY NICE SET $90.00. Joe Horvath, 522 Third St. San Rafael CA 94901

FOR SALE OR TRADE FOR OUTSIDE HORN PHONOGRAPH. RCA VICTOR VE 8-4-Acustical sound AC motor delux console with doors clean. Call Chuck, 503 476-1070.

FOR SALE; RADIOS, SPEAKERS, TUBES, MAGAZINES, BOOKS, TESTERS, PARTS, Ask for list 1-80 SASE w/2-15¢ stamps and 50¢. Krantz, 100 Osage Ave., Somerdale N.J. 08083..

AK #20 Radio complete with #10 Horn Speaker, tubes and demonstrator batteries $500.00.
Lappin Radio, 210 N. Goodwin, Urbana IL 61801. Ph: 217 367-9912.

THOSE WHO BOUGHT A LEMCO REPLICA FROM ME CAN OBTAIN THE LID LABEL FOR A SASE.
Bob, W6ME, 4178 Chasin St., Oceanside CA 92054.

November list of 300 old radio items. SASE and dime.
Chester Wisner, 1014 Main, Dalton, Mass. 01226.

FOR SALE OR TRADE

FOR SALE: 1921-3 Westinghouse RC (RADA combe) 3-tube regen. complete, GC but untested, less tubes $175. 1924 Radiola III, GC, untested less tubes $65. Horn Speakers: 1921 Western Electric 10-D, VGC $100; Magnavox R-3, VGC $90; Stromberg Carlson straight-neck type, $75; Thorola horn (no base or driver), near mint $35. 1930's Dayrad type 880 radio tester, oak case, instruction, exc. cond., $45. All plus shipping. H. Burke, 1201 Happy Hollow, Plattsmouth NE 68048.

FOR SALE: RIDER'S RADIO MANUALS
I thru XXI (21 volumes, xlnt)..$275
I thru XIX (19 volumes, xlnt)..$255
II thru XIV (13 volumes, gd)...$190
III thru XIV (11 vols, no XI)..$130
RIDER'S TV MANUALS: I, II, III, IV, V, VII & VIII (no VI, gd).....$150
Sets will not be broken. Postage of $1.50 per volume required, unless picked up.
C. Kirsten, 604 Fremont St., #1, South Pasadena CA 091030.
Ph. (213) 441-1710...

RESISTOR LINE CORD REPLACEMENT KIT
Here is a kit that will allow convenient and safe replacement of worn or defective resistor line cords. This kit is presently supplied for use with radios having tubes with heaters drawing 0.3A of the 6A7, 6D6, 75, 43, 2525 variety. Two models are currently available:

RLC-1 For 4 tube radios using above type tubes....$3.50.
RLC-2 For 5 tube radios using above type tubes....$4.50

Resistor line cord kits for other combinations are available by special order. Please write for details and prices.
Order from: Olde Tyme Radio Co., 2445 Lyttonsville Rd., Silver Spring MD 20910.

ANTIQUE SHOW AND FLEA MARKET, LIMITED TO: RADIOS, PHONOGRAPHS, MECHANICAL MUSIC AND TOYS. TO BE HELD DECEMBER 8th AND 9th AT BOEFF HALL, NAVARRE, OHIO. DEALERS AND COLLECTORS NOTE: FREE SET-UP SPACE! FOR MORE INFORMATION CALL: JEFF KRAUS, 424 COLUMBIANA, NAVARRE, OHIO 44662. TELEPHONE: (216) 879-5083..

FOR SALE: 71-A tubes. Guaranteed new in original war surplus boxes. $5. each post paid. Will also trade equivalent worth for WD-11, WD-12, Raven or DeForest tubes in good working condition. C. Kirsten, 604 Fremont St., #1, South Pasadena CA 91030..

FOR SALE OR TRADE: Atwater Kent parts 1927 - 1930, technical help, early electrics specialists. Vintage Radio Shop, 1419 - 8th St., Rockford IL 61104. Telephone: 815 964 3221..

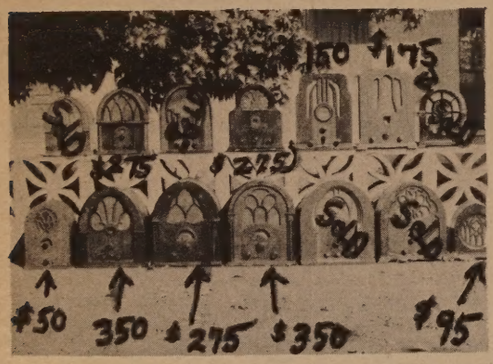
FOR SALE OR TRADE

FOR SALE: LEE DE FOREST LABORATORIES ...Medical machine "1928" 2-211's & 2-866 tubes in MOPA CKT. $50., 50 pounds. LEMCO "1926" reflex Rcvr. as is $40.00.
R. Zelenack, 985 W. 3rd Ave., Escondido CA 92025.

RADIOS 1929-1950 floor and table models all working. Some parts send for list SASE.
Willis D. Housel, 1640 South 38th St., Lincoln NB 68506.

FOR SALE: 50 back issues HORN SPEAKER since 1973, AK-20 Compact, good to excellent, prime battery cable, ant. tuning knob broken and one audio open pri. Complete with five good 201a tubes. Offer? Will ship.
Westley M. Chatellier, 1950 Chevelle Dr., Baton Rouge LA 70806.

For Sale or Trade: Two AK 10 Breadboards - Grebe CR? - Federal 59 - Federal 110 - BC 14A - SCR59, SCR68 2-BC10A.
Radiocrafters Inter-Panel same as De-Forest - Radiola III + IIIA - Pilot super wasp with coils.
Call Roger 815 961 8199. Calls prefered as I have no time to write.



1932 GE TUMBSTONE CLOCK RADIO $350. or trade. Twenty battery radios. Fifty Cathedrals, Tumbstones, AC set speakers, televisions. Send $1.00 fo new lists. Charles, 925 Starlite, Grants Pass OR 97526.
Want to buy outside horn phonographs and Atwater Kent Breadboards, pay $200 to $1500 ea.
503 476-1078.

FOR SALE: Cathedral, battery and AC radios from 1920's and 1930's. Please send large envelope with two stamps.
... Albert Warren, Box 279, Church St Waverly PA 18471.....

WANTED

WANTED: Zenith model 6S222 Black dial set or similar model. Also wanted pre-1930 Suitcase portables and Kellogg tube sets.
M. Rosenthal, 507 S. Maryland Ave., Wilmington DE 19804.

WANTED

WANTED: Tri-City Radio Corp., battery sets and any information pertaining thereto, and Crosley models V, VI, 50, XJ. Send description and price.
John Geyer, 8345 Mitze Way, Denver CO 80221.

WANTED IN ANY CONDITION HALLICRAFTERS SUPERSKYRIDERS ANY MODEL ALSO PLUG IN COILS FOR PILOT SUPER WASP HAMMARLUND COMET PRO AND NATIONAL FB-7. ANY OLD HAM RECEIVERS ESPECIALLY FB-7 COMET PRO RME-69.
DAVE MEDLEY, 6621 DUFFIELD DRIVE, DALLAS TX 75248. Ph;(214) 386-3982...

WANTED: RCA RADIOLA 82 or 86 receiver chassis assembly with remote control, or just AC motor tuning assembly from same. Used in Westinghouse WR-8-R Grandfather clock radio. Also Silvertone model 115 Cathedral schematic, and early ceiling fans and brass blade table fans.
Richard Cane, 8391 N.W. 21st St., Sunrise FL 33322.

WANTED: WIND POWERED ELECTRIC GENERATORS - parts or complete units, any condition. Prefer unit made by Jacobs Wind Electric Co. of Minneapolis (1930-1950) - 3 blade propeller, 32 or 110 volt D.C., 2000 - 3000 Watt units. Jacobs units are direct drive (no gear box) and weigh over 300 lbs. If you know of one, let me know - I can remove unit from the tower. Contact Richard Walter, 3415 Roosevelt Dr., Arlington, Texas 76016.

JOHN FIRTH CO. (FIRCO) is my specality. Looking for any equipment, parts, literature or information in any condition.
Larry Wright, 131 Hilltop, Lake in the Hills IL 60102. Ph: 312 658-5993.

WANTED: The microphone cable connector plug for WE-630 8-Ball, and the WE-639 Cardiod. Also need the Cannon connector plug for the RCA 50-A Inductor. Also want any early Broadcast Remote Amplifiers such as the NBC ND-10, RCA OP-5 and OP-6, WE-22A, WE-23A or other similar equipment. Still looking for Early RC Mics. for a museum. Ralph G. Maddox, Purgitsville WV 26852.
Telephone: 304 289-3069..

WANTED TO BUY: Early electrics and cathedrals (non-working).
Contact: Vintage Radio Shop, 1419- 8th St., Rockford IL 61104. Phone: 815 964 3221..

WANTED: CAR RADIOS 1929-1957 ORIGINAL TYPES. ALSO ANY PARTS, LITERATURE AND ASSOCIATED ITEMS, VIBRATORS, ANTENNAS ETC. CASH PAID. PLEASE PRICE AND DESCRIBE.
MARVIN ROTH, 14500 LABELLE, OAK PARK, MICHIGAN 48237....

WANTED

WANTED: Philco 90 cathedral, AK 80 cathedral and other AK cathedrals. Also need metal b back-top for AA-1400 of a Radiola VI.
Charles Green, 5225 Broadway, Great Bend KS 67530.
316 793-7973..

WANTED; I will pay up to $1500.00 for an extra clean Scott Radio Labs (Scott Special) as per page 252 in "The Flick of the Switch."
Prefer phone calls 815 964-8199-not collect. Roger Rees.
I will also pay top money for other rare radios especially Norden-Hauck Super Hets!!

NEED PARTS FOR SILVER MASTERPIECE AND SMALL CLAPP EASTHAM HORN.
Cecil Bounds, Pine Springs Rte., Carlsbad N.M. 88220.

WANTED AK BREADBOARDS and outside HORN PHONOGRAPHS. Pay $100 to $1000 each or trade groups of old radios for them.
Chuck, 925 Starlite, Grants Pass, OR 97526. Phone: 503 476-1078.

WANTED: Philco model 90 Cathedral in good restorable condition. Want power supply cover for AK 40. Want wiper arm and good transformer for Radiola III. Gene Densmore, 2125 Cambridge Drive, Tallahassee, FL 32304. Phone; 904 576-2125..

WANTED: Coin-operated phonographs, pre-1900 phonographs--any condition. Edison Opera, Idelia, AIVA, Concert, "M" electric. Zonophone, Queen Busy Bee. Edison Royal Purple cylinders. Quick reply. Describe and price. Send photo if possible.
Kaplan, 129 Howell St., Canandaigua New York 14424.

WANTED: Viking Valiant II, will trade National SW5 with tubes.
Fenton Wood, 3122 Annarbor, Sugarland TX 77478.

WANTED: Philco 90 cathedral, AK 20 cathedral and other AK cathedrals. Also need metal back-top for AA-1400 of a Radiola VI.
Charles Green, 5225 Broadway, Great Bend KS 67530. Ph: 316 793-7973..

WANTED: HALLICRAFTERS, MANUALS, BOOKS, CATALOGS, ADVERTISING ITEMS, ACCESSORIES, PARTS.
G. Barber, P.O. Box 31654, Aurora CO 80041.....

WANTED: RCA power-audio chassis as used in 1926 radio/phono combos and in Radiola 28 AC model. Three or four tube unit OK. See Riders V. 1, p. 485, 506-510 for details. Also want RCA horseshoe magnet phono pickup head working or not.
Jerry Newton, Rt. 1, Box 262, Woodland CA 95695.

PUETT ELECTRONICS

PUBLISHERS OF P.O. BOX 28572 DALLAS TEXAS 75228

ANTIQUE RADIO TOPICS &
THE CLASSIC RADIO NEWSLETTER

LIST NO. 18A

how to order:

(1) MAKE ALL CHECKS OR MONEY ORDERS PAYABLE TO PUETT ELECTRONICS, ALL PAYMENTS MUST BE IN U.S. FUNDS AND NEGOTIABLE WITHOUT PAYMENT OF A BANK COLLECTION FEE. MONEY ORDERS ISSUED BY POST OFFICES IN CERTAIN COUNTRIES (CANADA FOR EXAMPLE) ARE ACCEPTABLE IF THEY CAN BE CASHED IN A U.S. POST OFFICE.

(2) ALL ORDERS ARE POSTPAID AND INSURED. THE PRICE OF ALL ITEMS INCLUDES POSTAGE AND INSURANCE CHARGES.

(3) TEXAS RESIDENTS ONLY - ADD 5% STATE SALES TAX.

(4) YOU CAN USE YOUR MASTER CHARGE OR VISA TO CHARGE YOUR PURCHASES. VISA CUSTOMERS SEND YOUR ACCOUNT NUMBER AND EXPIRATION DATE WITH YOUR ORDER. MASTER CHARGE CUSTOMERS SEND YOUR ACCOUNT NUMBER, YOUR INTERBANK NUMBER (above your name on your card) AND YOUR EXPIRATION DATE. WE MUST HAVE THIS INFORMATION IF YOU WISH TO CHARGE YOUR PURCHASES.

IN A HURRY! You may call J. W. F. Puett at his residence from 9:00 AM to 10:00 PM Central Standard or Central Standard Daylight Time. We will be glad to help you with free technical consultation 214 - 321-0927 or 327-8721.

NEW! JUST OUT!! ANTIQUE RADIO CATALOG No. 18A -- EVERYTHING FOR ANTIQUE RADIO RESTORATION

APPROXIMATELY 800 DIFFERENT TUBE TYPES IN STOCK!!
INTERSTAGE & POWER TRANSFORMERS, CAPACITORS, RESISTORS, DIAL LAMPS, ETC.
PUBLICATIONS, LISTS, BOOKS, SCHEMATIC DIAGRAMS, TECHNICAL DATA, INSTRUCTION MANUALS, ETC.
ORDER YOUR COPY TODAY --- ONLY $1.00 POSTPAID!!

ANTIQUE RADIO TUBES

HERE ARE A FEW OF THE 800 DIFFERENT TYPES OFFERED IN OUR CATALOG No. 18A! ALL TUBES ARE GUARANTEED. SEE OUR POLICY STATED IN CATALOG.

		2A6	$5	6J7	$5	7A6	$5	24A	$6	50A5	$4
		3Q5	$4	6K5	$4	7A7	$5	25L6	$4	50B5	$4
0D3	$3	3V4	$4	6K6	$4	7A8	$5	25Z5	$4	50C5	$4
0Z4	$4	5AZ4	$6	6K7	$5	7B5	$4	25Z6	$4	50L6	$4
1A7	$4	5U4	$3	6K8	$5	7B6	$5	26	$7	51	$5
1H5	$4	5Y3	$4	6L5	$5	7B7	$5	27	$5	55	$6
1L6	$9	5Y4	$4	6L6	$4	7B8	$5	30	$6	56	$4
1LA6	$5	5Z3	$4	6L7	$5	7C5	$4	32	$5	57	$4
1LB4	$5	6A7	$7	6Q7	$5	7C6	$5	34	$5	58	$5
1LD5	$5	6A8	$4	6SA7	$4	7C7	$5	35	$5	70L7	$6
1LE3	$5	6C5	$5	6SB7	$4	7F8	$7	35A5	$5	71A	$8
1LN5	$5	6C6	$4	6SC7	$4	7G7	$5	35L6	$4	75	$5
1N5	$5	6D6	$5	6SG7	$5	7H7	$5	35W4	$4	76	$4
1R5	$3	6E5	$8	6SJ7	$4	7Y4	$5	35Y4	$5	77	$5
1U4	$4	6F5	$5	6SK7	$4	10	$8	35Z5	$4	78	$5
1U5	$4	6F6	$6	6SL7	$4	12A7	$5	36	$5	79	$5
1V	$6	6G5	$8	6SQ7	$4	12AT6	$3	37	$5	80	$4
2A3	$8	6H6	$3	6U5	$8	12AV6	$3	38	$4	81	$7
2A5	$5	6J5	$4	6U7	$6	12B7	$5	39	$4	83V	$4
				6V6	$3	12BA6	$3	40	$8	84	$4
				6X5	$3	12BE6	$3	41	$5	85	$5
				7A5	$4	12K7	$5	42	$5	89	$5
						12Q7	$5	43	$5	117L7	$6
						12AS7	$4	44	$4	117Z3	$4
						12SG7	$4	45	$7	117Z6	$5
						12SK7	$4	46	$5		
						12SQ7	$4	47	$8		
						14A7	$5	50	$8		

OLD TIME RADIO SHOWS ON CASSETTES

SEND ONE FIRST CLASS MAIL STAMP FOR OUR SHORT LIST OF PROGRAMS. HUNDREDS ARE LISTED IN OUR CATALOG No. 18A.

Amos & Andy, Fibber McGee & Molly, Inner Sanctum, etc.

IT'S NEW

THE ENCYCLOPEDIA OF ANTIQUE RADIO $7.95 POSTPAID
SIMILAR CONTENT, BUT COVERING SETS OTHER THAN THOSE INCLUDED IN Vintage Radio AND A Flick Of The Switch.

THE DIRECTORY OF ANTIQUE RADIO SERVICES $3.00 POSTPAID - SERVICES & SOURCES THROUGHOUT THE U.S.A.

BOOKS, BOOKLETS, LISTS & DATA

Booklets listed in (1) thru (5) below are $2. each, 3 for $5., 4 for $6. or 5 for $7.

(1) The Acquisition Of Antique Radios by J. W. F. Puett
(2) The Complete Restoration of Battery Powered Antique Radios by J. W. F. Puett
(3) The Complete Restoration of AC Powered Antique Radios by J. W. F. Puett
(4) When Was That Old Tube Made? by James R. Wilkins
(5) Antique Radio Tube Substitution by J. W. F. Puett

(6) SILVER GHOSTS by J. W. F. Puett (history of E. H. Scott) $8.95
(7) THE CLASSIC RADIO COLLECTORS HANDBOOK by J. W. F. Puett $10.00
(8) THE APPRAISAL OF ANTIQUE RADIOS by J. W. F. Puett $4.95
(9) The PUETT ELECTRONICS Super Antenna - Ground System Plans $2.00
(10) Cross Reference List of Military vs. Commercial Tube Type Numbers $1.00

See listing for Encyclopedia and Directory on this page.

SCHEMATIC DIAGRAMS

WE HAVE SCHEMATICS FOR NEARLY ANY ANTIQUE RADIO RECEIVER! Send name of manufacturer & model number of set - $1.50 postpaid. Without name of mfg. and/or model No. we will search our files for $3.00, but we must have a sketch of top of chassis showing type numbers and location of all tubes and location of front panel & dial.

APPRAISAL

WE OFFER THOROUGHLY DOCUMENTED APPRAISALS FOR INSURANCE PURPOSES. Many insurance companies offer special antique insurance policies which cover items which have been properly appraised. SEND ONE FIRST CLASS MAIL STAMP FOR OUR APPRAISAL BROCHURE.

ANTIQUE RADIO TOPICS &
THE CLASSIC RADIO NEWSLETTER

THREE PERIODICALS IN ONE!!! *YOU GET ALL THREE!!!*

ANTIQUE RADIO TOPICS --- THE CLASSIC RADIO NEWSLETTER
THE ANTIQUE RADIO NEW ACQUISITIONS LIST

SEND FOUR FIRST CLASS MAIL STAMPS FOR A SAMPLE ISSUE. PUBLISHED TEN TIMES PER YEAR. ALL SUBSCRIBERS RENEW IN JANUARY OF EACH YEAR. PLEASE WRITE FOR OUR SUBSCRIPTION RATES. CLASSIFIED ADS ARE FREE! WHEN PUETT ELECTRONICS HAS RARE TUBES TO SELL (WD-11, 99, 01A, etc.), OUR SUBSCRIBERS HAVE THE FIRST OPPORTUNITY TO PURCHASE THESE THROUGH THE ANTIQUE RADIO NEW ACQUISITIONS LIST WHICH IS SENT TO SUBSCRIBERS ONE WEEK BEFORE IT IS MADE AVAILABLE TO OTHER CUSTOMERS.

January

THE HORN SPEAKER

1980

From a photograph made for POPULAR RADIO